



Attorney Docket No. 320727-00123
Customer No. 27160

U.S. Patent Application No.
10/645,610

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of

Lola M. REID *et al.*

Patent Application No.: 10/645,610

Filed: August 22, 2003

Title: PROLIFERATION OF HEPATOCYTE PRECURSORS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER
37 C.F.R. § 1.56, § 1.97(b)(3) AND § 1.98

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. § 1.97 (b)(3) and § 1.98, Applicants bring to the attention of the Examiner the documents listed on the attached Form PTO/SB/08A. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the documents were previously submitted in Patent Application No. 09/534,487 filed March 24, 2000, from which this application claims priority under 35 U.S.C. § 120. Accordingly, no copies are being provided herewith.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each, any, or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the present application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Further, Applicants reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied as prior art against the claims of the present application.

CONCLUSION

It is respectfully requested that the attached information be considered by the Examiner and that a copy of the attached Form PTO/SB/08A be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3500. All correspondence should continue to be directed to our address given below.

AUTHORIZATION

Applicants believe there is no fee due in connection with this filing as this Information Disclosure Statement is being filed prior to any Office Action on the merits in this matter. However, to the extent required, the Commissioner is hereby authorized to charge any fees due in connection with this filing to Deposit Account 50-1710 or credit any overpayment to same.

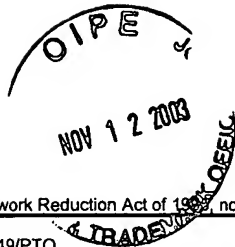
Respectfully submitted,



Serge Sira, PH.D.
Registration No. 39,445
Gilberto M. Villacorta, PH.D.
Registration No. 34,038

Patent Administrator
KATTEN MUCHIN ZAVIS ROSENMAN
525 West Monroe Street, Suite 1600
Chicago, Illinois 60661-3693
Facsimile: (312) 902-1061
Dated: November 12, 2003

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Applicant Number	10/645,610
Filing Date	August 22, 2003
First Named Inventor	Loa M. REID et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	320727-00123

Sheet	2	of	7
-------	---	----	---

NON PATENT LITERATURE DOCUMENTS

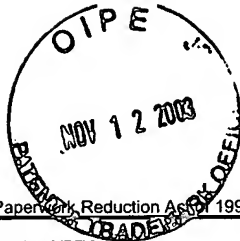
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	12	Agelli et al. "Survival in Culture of Putative Liver Stem Cells is Independent from Known Epithelial Cell Growth Factors", Clinicial Research, Vol 39, No. 2, pp. 167A 1991.	
	13	Armentano, et al. Expression of human Factor IX in rabbit Hepatocytes by Retrovirus-Medicate Gene transfer: Potential for gene Therapy of Hemophilia B", "Proc. Natl. Acad. Sci.", Vol. 87, pp. 6141-6145, (1990)	
	14	ATERMAN, "The Stem Cells of a Liver-a Selective Review", J Cancer Research Clinical Oncol", Vol. 118. pp. 87-115 (1992)	
	15	BARCLAY, "The Localization of Populations of Lymphocytes defined by Monoclonal Antibodies in Rat Lymphoid Tissues", Immunology, Vol. 42, PP. 593-600 (1981)	
	16	Bauvois et al. "Inhibition of γ -Glutamyl Transpeptidase Activity at the Surface of Human Myeloid Cells is Correlated with Macrophage Maturation and Transforming Growth Factor B Production", Cell Growth & Differentiation, Vol. 6, pp. 1163-11700 1995.	
	17	BLOCK et al. "Population Expansion, Clonal Growth, and Specific Differentiation Patterns in Primary Cultures of Hepatocytes Induced by HGF/SF, EGF and TGF @ in a Chemically Defined (HGM) Medium", Journal of Cell Biology, Vol. 132, No. 6, pp. 1133-1149, 1996	
	18	BRILL et al., "Maturation-Dependent Changes in the Regulation of Liver-Specific Gene Expression in Embryonalversus Adult Primary Liver Cultures", Differentiation, Vol. 59, pp. 95-102.	
	19	BRILL et al. Extracellular Matrix Regulation of Growth and Gene Expression in Liver Cells Lineages and Hepatomas", The Liver: Biology and Pathobiology", pp. 869-891, 1994	
	20	CHOMCZYSKI et al., "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction", Anal. Biochem., Vol. 162. pp. 156-159 1987.	
	21	Cronrad et al., "Combined Cystic Teratoma and Hepatoblastoma of the Liver" Cancer, Vol. 72, (No. 10), pp. 2910-2913 1993.	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,610
Filing Date	August 22, 2003
First Named Inventor	Lola REID et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	320727-00123

Sheet	3	of	7
-------	---	----	---

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	22	Carm et al., "Abstracts for the XIII International Meeting of the Society for Analytical Cytology", "Journal of Society for Analytical Cytology Cytometry", Supp. 2, pp. 12 (1988)	
	23	Damjanovich et al., "Cyclosporin Depolarizes human Lymphocytes: Earliest Observed effect on Cell Metabolism", European Journal of Immunology", Vol. 17, pp. 763-768 (1987)	
	24	Enjoji et al. "Establishment of a Facultative Human Hepatic Stem Cell Line with a Dual Differentiating Potentiality", Gastroenterology 110, Vol 110 (4 suppl.), A1187 (1996)	
	25	Etat et al., "Hepatocyte Proliferation in Vitro: Its Dependence on the use of Serum-Free Hormonally Defined Medium: and Substrata of Extracellular Matrix:"< Proc. Natl., Acad. of Sci U.S.A., Vol. 81, pp. 1411-1415 (1984)	
	26	FAUSTO et al., "Cell Lineages in Hepatic Development and Identification of Progenitor Cells in Normal and Injured Liver" Proc. Soc. Exp. Biol. Med. 204: 237-241 (1993)	
	27	FREIDMANN et al., "Retrovirus Vector-Mediated Gene Transfer in Hepatocytes", Mol. Biol. Med." Mol. Biol. Med., Vol. 6, pp. 117-125, (1989)	
	28	FUJIO et al., "Involvement of Stem Cell Factor and its Receptor, C-Kit, in Liver Regeneration via the Hepatic Stem Cell Compartment", Hepatology 18", Vol. 18 (No. 4), pp. 161A, (1993)	
	29	FULWYER, "Hydrodynamic Orientation of Cells", "J. Histochemistry & Cytochemistry", Vol. 25 (No. 7), pp. 781-783 (1977)	
	30	Gebhardt, "Metabolic Zonation of the Liver: Regulation and Implications for Liver Function", "Pharmac. Ther.", Vol. 23, pp. 275-354 (1990)	
	31	Germain et al., "Biliary Epithelial and Hepatocytic Cell Lineage Relationships in Embryonic Rat Liver as Determined by the Differential Expression of Cytokeratins, Fetoprotein, Albumin, and Cell Surface-Exposed Components", Cancer Research", Vol. 48, pp. 4909-4918 (1988)	

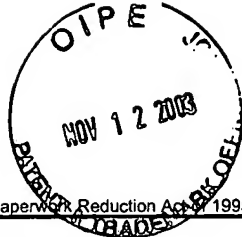
Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,610
Filing Dat	August 22, 2003
First Named Inventor	Lola M. REID et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	320727-00123

Sheet 4 of 7

NON PATENT LITERATURE DOCUMENTS

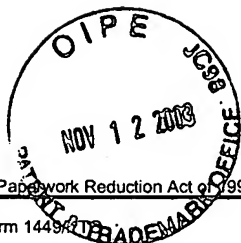
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	32	GRISHAM, "Migration of Hepatocytes Along Hepatic Plates and Stem Cell-Fred Hepatocyte Lineages", "American J. of Pathology", Vol. 144 (No.5), pp. 849-854 (1994)	
	33	GRISHAM et al., "Isolation, Culture and Transplantation of Rat Hepatocytic Precursor (Stem-Like) Cell, "Culture of Hepatocytic Stem-Like Cells", Vol. 204 (No. 3), pp. 270-279 (1993)	
	34	GUPTA et al., " Permanent Engraftment and Function Hepatocytes Delivered to the Liver: Implication for Gene Therapy and Liver Repopulation", "Hepatology" Vol. 14 (No. 1), pp 144-149 (1991)	
	35	HIRATA et al., "Effects of Basement Membrane Matrix on the Culture of Fetal Mouse Hepatocytes", Biol. of Abstr.", Ref. No. 57932, Vol. 77 (No. 8), pp. 6372	
	36	HIXON et al., "An antigenic Portrait of the Liver during Carcinogenesis", Pathbiology: Liver Carcinogenesis", pp. 65-77 (1990)	
	37	HOANG et al., "Separation Hemopoietic Cells From Adult Mouse Marrow by use of Monoclonal Antibodies", Monoclonals Against Hemopoietic Cells", Vol. 61, pp. 580-588 (1983)	
	38	JOHE et al., "Single Factors Direct the Differentiation of Stem Cells from the Fetal and Adult Central Nervous System", Genes & Development", vol 10, pp. 3129-3140 (1996)	
	39	KOCH, et al., "Retroviral Vector Infection and Transplantation in Rats of Primary Fetal Rat Hepatocytes", Journal of Cell Sciences", Vol. 99, pp. 121-130 (1991)	
	40	LAFANGE-FRAYSSINET et al., "Alpha-Fetoprotein Gene Expression in Human Lymphoblastoid Cells and in Pha-Stimulated Normal T-Lymphocytes", Biochemical and Biophysical Research Communications", Vol. 159, No. 1, pp. 112-118 (1989)	
	41	LEDLEY et al., "Retroviral Gene Transfer Into Primary Hepatocytes: Implication for Genetic Therapy of Liver-Specific Functions", Proc. Natl. Acad. Sci., Vol. 84, pp. 5335-5339 (1987)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/2

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet	5	of	7	Applicant Number	10/645,610
				Filing Date	August 22, 2003
				First Named Inventor	Lola M. REID et al.
				Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	320727-00123

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	42	LEH, et al. "Cloning and Expression of a Novel Type (III) of Human y-Glutamyltransferase truncated mRNA," FEBS Letters, Vol. 394, pp 258-262. (1996)	
	43	LI et al. " Culturing of Primary Hepatocytes as Entrapped Aggregates in a Packed Bed Bioreactor: A Potential Bioartificial Liver", In Vitro Cell. Dev. Bio., Vol. 29A, pp. 249-254 (1993)	
	44	MORAN et al., "Hepatoid Yolk Sac Tumors of the Mediastinum: A Clinicopathologic and Immunohistochemical Study four Cases", The Amer. Journal of Surgical Pathology, Vol. 21 No. 10, pp. 1210-1214, (1997)	
	45	NUNES et al., "Liver-Directed Gene Therapy", Management of Chronic Liver Disease, Vol. 80, pp. 1201-1212 (1996)	
	46	PRETLOW et al., (eds) Cell-Separation: Methods and Selected Applications, pgs. 45-77 Academic Press, New York (1987)	
	47	REID, "Stem Cell/Lineage Biology and Lineage-Dependent Extracellular Matrix Chemistry: Keys to Tissue Engineering of Quiescent Tissues Such as Liver", Textbook of Tissue Engineering", pp. 477-509 (1996)	
	48	REID, "Defining Hormone and Matrix Requirements for Differentiated Epithelia", Methods in Molecular Biology", The Humana Press, Inc., Vol. 5, pp. 237-276 (1990)	
	49	ROBINSON et al., "MRC OX-43; A Monoclonal Antibody Which Reacts With all Vascular Endothelium in the Rat Except that of Brain Capillaries", "Immunology", Vol. 57, pp. 231-237 (1986)	
	50	RUCK et al., "Hepatic Stem-Like Cells In Hepatoblastoma: Expression Cytokeratin 7, Albumin and Oval Cell Associated Antigens Detected by OV-1 and OV-6", Histopathology, Vol. 31, pp. 324-329 (1997)	
	51	RUTENBERG et al., "Histochemical and Ultrastructural Demonstration Glutamy Transpeptidase Activity", Journal of Histochemistry and Cytochemistry.", Vol. 17, pp. 517-526 (1969)	

Examiner Signature	Date Considered
--------------------	-----------------

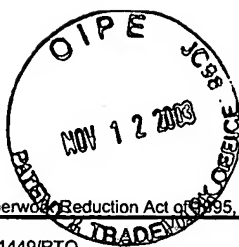
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,610
Filing Dat	August 22, 2003
First Named Inventor	Lola M. REID et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	320727-00123

Sheet	6	of	7
-------	---	----	---

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	52	SANDERS et al., "Determination of Guanine-Plus-Cytosine Content of Bacterial DNA by Dual-Laser Flow Cytometry", Journal of General Microbiology", Vol. 136 (Part 2), pp. 219-376 (1990)	
	53	SANDERS et al., "Detection and Analysis by Dual-Laser Flow Cytometry of Bacteriophage T4 DNA Inside Escherichia Coli", Journal of the Inter. society for Analytical cytology Cytometry", Vol. 12, pp. 167-171 (1991)	
	54	SCILLIAN et al., "Early Detection of Antibodies Against DNA-Produced HIV Proteins with a Flow of Cytometric Assay", Journal of American Society of Hematology, Vol. 73 (No. 7), pp. 2041-2048 (1989)	
	55	SEREGNI et al., "Biochemical Characteristics and Clinical Application of Alpha-Fetoprotein Isoforms", Anticancer Research", Vol. 15, pp 1491-1500 (1995)	
	56	SIGAL et al., "Demonstration of Differentiation in Hepatocyte Progenitor Cells Using Dipeptidyl Peptidase IV Deficient Mutant Rats", Cellular and Molecular Biology Research, Vol. 41 (No. 1), pp. 39-47 (1995)	
	57	SIGAL et al., "Characterization and Enrichment of Fetal Rat Hepatoblast by Immunoabsorption ("Panning") and Fluorescence-Activated Cell Sorting", Hepatology, Vol. 19 (No. 4) pp. 999-1006 (1994)	
	58	SIGAL et al., "Evidence for a Terminal Differentiation Process in the Rat Liver", Differentiation, Vol. 59, pp. 35-42 (1995)	
	59	SIGAL et al., "The Liver as a Stem Cell and Lineage System", American J. of Physiol (Invited Review), pp. G139-G148 (1992)	
	60	SMITH et al., "Hepatic Stem Cells in the Human Liver", Correspondence, Vol. 29, pp. 589-594 (1996)	
	61	SZOLLOSI et al., Physical Association Between MHC Class I Class II Molecules Detected on the Cell Surface by Flow Cytometric Energy Transfer", Journal of Immunology", Vol. 143 (No. 1) pp. 208-213 (1989)	

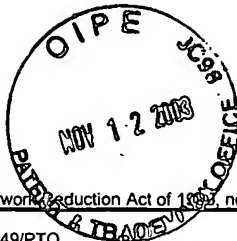
Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,610
Filing Date	August 22, 2003
First Named Inventor	Lola M. REID et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	320727-00123

Sheet 7 of 7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	62	STEINKAMP et al., "A New Multiparameter Separator for Microscopic Particles and Biological Cells", Review of Scientific Instruments, Vol. 44 (No. 9), pp. 1301-1310 (1973)	
	63	TANIGUCHI et al., "Conditions for the Successful Engraftment of Hepatocyte Progenitors Injected into the Spleen", Transplantation Proceedings, Vol. 28 (No. 3), pp. 1855-1856,	
	64	TASI et al., "Isolation of a Human Stromal Cell Strain Secreting Hemopoietic Growth Factors", Journal of Cellular Physiology, Vol. 127, pp. 137-145 (1986)	
	65	TASI et al., "Isolation of a Human Stromal Cell Strain Secreting Hemopoietic Growth Factors", Biology Abst., Ref. No. 22434, Vol. 82 (No. 3)	
	66	TSUCHIDA, et al., "The Role of Subfractionation of Alpha-Fetoprotein in the Treatment of Pediatric Surgical Patients", J. of Pediatric Surgery, Vol. 32, No. 3, pp. 514-517 (1997)	
	67	WILSON et al., "Temporary Amelioration of Hyperlipidemia in Low Density Lipoprotein Receptor-Deficient Rabbits Transplanted with Genetically Modified Hepatocytes", Proc. Natl. Acad. Sci. : Vol. 87, pp. 8437-8440 (1990)	
	68	WILSON et al., "Retrovirus-Mediated Transduction of Adult Hepatocytes", Proc. Natl. Acad. Sci. , Vol. 85, pp. 3014-3018, (1988)	
	69	Wu et al., "Targeting Genes: Delivery and Persistent Expression of a Foreign Gene Driven by Mammalian Regulatory Elements in Vivo", J. Biol. Chem., Vol. 264, (No. 29) pp. 16985-16987 (1989)	
	70	Yamamasu, et al., "Role of Glutathione Metabolism and apoptosis in the Regression of Live Hemopoiesis", Free Radical Biology & Medicine, Vol. 23 (No. 1) pp. 100-109 (1997)	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.